



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/009,004B  
Source: 1609  
Date Processed by STIC: 11/5/04

RECEIVED

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS.

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



1600

## RAW SEQUENCE LISTING

DATE: 11/05/2004

PATENT APPLICATION: US/10/009,004B

TIME: 13:48:11

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\11052004\J009004B.raw

3 <110> APPLICANT: Gregory, Richard L.  
 5 <120> TITLE OF INVENTION: Methods and Compositions for Controlling Dental Caries,  
 6 and Recombinant SmaA Polypeptides Useful for Same  
 8 <130> FILE REFERENCE: IU97  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/009,004B  
 C--> 11 <141> CURRENT FILING DATE: 2001-11-05  
 13 <150> PRIOR APPLICATION NUMBER: 60/132,312  
 14 <151> PRIOR FILING DATE: 1999-05-03  
 16 <160> NUMBER OF SEQ ID NOS: 6  
 18 <170> SOFTWARE: PatentIn Ver. 2.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 7  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Streptococcus mutans  
 25 <400> SEQUENCE: 1  
 26 Glu Glu Gln Ser Gly Gly Thr  
 27 1 5  
 30 <210> SEQ ID NO: 2  
 31 <211> LENGTH: 7  
 32 <212> TYPE: PRT  
 33 <213> ORGANISM: Streptococcus mutans  
 35 <400> SEQUENCE: 2  
 36 Tyr Leu Met Lys Gly Gly Thr  
 37 1 5  
 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 11  
 42 <212> TYPE: PRT  
 43 <213> ORGANISM: Streptococcus mutans  
 45 <400> SEQUENCE: 3  
 46 Met Ser Ser Gln Ala Lys Ala Asn Asn Ile Pro  
 47 1 5 10  
 50 <210> SEQ ID NO: 4  
 51 <211> LENGTH: 11  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Streptococcus mutans  
 55 <400> SEQUENCE: 4  
 56 Met Gln Arg Pro Thr Glu Phe (Xaa) Glu Asp Lys  
 57 1 5 10  
 60 <210> SEQ ID NO: 5  
 61 <211> LENGTH: 2985  
 62 <212> TYPE: DNA  
 63 <213> ORGANISM: Streptococcus mutans  
 65 <220> FEATURE:

Does Not Comply  
Corrected Diskette Needed

pp 1, 6

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see p.6 for error explanation

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TIME: 13:48:11

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\11052004\J009004B.raw

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66 <221> NAME/KEY: CDS
67 <222> LOCATION: (816)..(1820)
69 <400> SEQUENCE: 5
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72 cggcatgtct gtcaaccttg cccgcactgg taagagcggtt aagctgtcaa acgtcactca 120
74 gtttatggca gaatctcgtg agaatgtaga aaatgctgtc gctggtgata ttatcggagt 180
76 ttacgataca ggaacttatc aggttggtga taccttaact gttggtaaaa ataaatttga 240
78 atttgagcca ctgccgacct ttacaccaga gctctttatg aaagtttctg ctaaaaatgt 300
80 tatgaagcag aagtcttttc ataaaggcat tgagcaattg gtgcaagaag gtgctataca 360
82 gctttatacc aactatcaaa ctggtgaata tatgcttggg gcagtcgggtc agctccagtt 420
84 tgaagttttc aaacaccgca tggaaaatga atacaatgcg gaggttatca tgacacccat 480
86 gggtaagaaa acggtgcggt ggattaagga ggaagatctt gatgaacgta tgtcttcag 540
88 ccgcaatata ttggctaaag accgctttta caagcccggt ttctcttttc aaaatgactt 600
90 ttctcttcat tggtttgag ataaatatcc agatatagtt ttggaagaga agatgtaaca 660
92 atgatttggt taaatcttat aaataacgat caaccatttc ttggtttggt gtttttttat 720
94 atagtaaaaa tttttcaaaa aatatattac gtaagtattg ctaaatatat cttttgtggt 780
96 tcaatatagg tgaaaaaaga aaatgaagga agatt atg aat caa aaa ata gtc 833
97                                     Met Asn Gln Lys Ile Val
98                                     1               5
100 gtc att tcg tca ttt tac atg tta ggt gct cat tca ttt tca aag gca 881
101 Val Ile Ser Ser Phe Tyr Met Leu Gly Ala His Ser Phe Ser Lys Ala
102                                     10               15               20
104 gta tat cat aat gat agg agt gtg aaa ctt atg aaa aga att gat att 929
105 Val Tyr His Asn Asp Arg Ser Val Lys Leu Met Lys Arg Ile Asp Ile
106                                     25               30               35
108 aat cat caa gca caa cgt ttt tct att cgt aaa tat gca ttt gga gct 977
109 Asn His Gln Ala Gln Arg Phe Ser Ile Arg Lys Tyr Ala Phe Gly Ala
110                                     40               45               50
112 gca tct gtt tta att ggc tgt gtc ttt ttt cta ggt acc caa aat gtt 1025
113 Ala Ser Val Leu Ile Gly Cys Val Phe Phe Leu Gly Thr Gln Asn Val
114 55               60               65               70
116 tct gca caa gag cag gga act caa ttg cca gca agt gaa aac gca gtt 1073
117 Ser Ala Gln Glu Gln Gly Thr Gln Leu Pro Ala Ser Glu Asn Ala Val
118               75               80               85
120 gtg aac gtg gct gaa aat tca gtt gct atc agc caa gca gtt gca gat 1121
121 Val Asn Val Ala Glu Asn Ser Val Ala Ile Ser Gln Ala Val Ala Asp
122               90               95               100
124 aag gca gca act caa aca act cta aca gaa aca ccc caa gtt gaa gtt 1169
125 Lys Ala Ala Thr Gln Thr Thr Leu Thr Glu Thr Pro Gln Val Glu Val
126               105               110               115
128 gag gag aaa gaa agt aag gta aat gct cct gct tta aat gtc gat gac 1217
129 Glu Glu Lys Glu Ser Lys Val Asn Ala Pro Ala Leu Asn Val Asp Asp
130               120               125               130
132 aaa ggt gca aaa tcc aaa gaa gat gtg aac cct act att tca aag aca 1265
133 Lys Gly Ala Lys Ser Lys Glu Asp Val Asn Pro Thr Ile Ser Lys Thr
134 135               140               145               150
136 gca agt gaa gtg gaa gct tct gca gta act gct act gat act aaa aat 1313
137 Ala Ser Glu Val Glu Ala Ser Ala Val Thr Ala Thr Asp Thr Lys Asn
138               155               160               165

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140 tca aat cca caa gtc aat gtt gaa act gac tca agt gaa aaa gac gaa 1361
141 Ser Asn Pro Gln Val Asn Val Glu Thr Asp Ser Ser Glu Lys Asp Glu
142 170 175 180
144 aat aaa atg gtc acc tcg gct cca gct aag gag act gag gca gaa caa 1409
145 Asn Lys Met Val Thr Ser Ala Pro Ala Lys Glu Thr Glu Ala Glu Gln
146 185 190 195
148 aat gag aaa gcg gtc aga gaa aat ctt atg caa aga caa gct aag gct 1457
149 Asn Glu Lys Ala Val Arg Glu Asn Leu Met Gln Arg Gln Ala Lys Ala
150 200 205 210
152 gtc tca att cca tcg caa gcc aat tat gtt ttc caa gaa aca act cct 1505
153 Val Ser Ile Pro Ser Gln Gly Asn Tyr Val Phe Gln Glu Thr Thr Pro
154 215 220 225 230
156 gta aaa aat gca gcc agt atg tcc agc cca acc caa ttt aac ttt gat 1553
157 Val Lys Asn Ala Ala Ser Met Ser Ser Pro Thr Gln Phe Asn Phe Asp
158 235 240 245
160 aaa gga gat aag gtt ttt tat gat aat gtt tta gaa gcg gat ggg cat 1601
161 Lys Gly Asp Lys Val Phe Tyr Asp Asn Val Leu Glu Ala Asp Gly His
162 250 255 260
164 caa tgg att agc tat gtg tct tac agt ggt att cgt cgc tat gct cct 1649
165 Gln Trp Ile Ser Tyr Val Ser Tyr Ser Gly Ile Arg Arg Tyr Ala Pro
166 265 270 275
168 att gct gtg aca att gaa gaa ttg aag caa aaa gaa att gtt cag caa 1697
169 Ile Ala Val Thr Ile Glu Glu Leu Lys Gln Lys Glu Ile Val Gln Gln
170 280 285 290
172 aat tta ccg gca caa gga acc tat cac ttt act aaa cag cag agc tta 1745
173 Asn Leu Pro Ala Gln Gly Thr Tyr His Phe Thr Lys Gln Gln Ser Leu
174 295 300 305 310
176 aaa atg aag cta aac tgt cta gtc cga ccc aat tct cgt ttt aca acg 1793
177 Lys Met Lys Leu Asn Cys Leu Val Arg Pro Asn Ser Arg Phe Thr Thr
178 315 320 325
180 gag atc acg ttt ttt atg ata agg ttt tagaagcgga tggacatcaa 1840
181 Glu Ile Thr Phe Phe Met Ile Arg Phe
182 330 335
184 tggattagct atgtgtccta cagtgggtatc cgctcggttatg ttgttatttg aaagctttacg 1900
186 acacaaccct ctccaattga aactaaagta tcagggtacta ttgtcatcca aaataaaaacg 1960
188 gctcaacaat tcgatgttgt catttctaata gcttcaagca atcaaggcat aaaagaggta 2020
190 ttagtgccag tttggtcaga gcaaaacggg caggatgaca ttgtctggta tcaagcaact 2080
192 aaacaagggtg aaggcggttta taagggtgacc gttaagggtca gtgaccataa aaataatagc 2140
194 ggtaactatc atgtccatct ttattatctt ttggataatg gtgaacaaag aggagtccggg 2200
196 gcaacaatga ctgaggtgga agcaccagag cctgtagaaa caacagggtat cattagcatt 2260
198 gccataaga gcagccaagg atttgatgtt ttgattacta atgcttccag cactcaagac 2320
200 ataaaagagg ttttagtgcc gggttggtca gaacaaaacg gacaggacga tattattttgg 2380
202 tatcaagcaa ctaacaagg cgaaggcggt tataagggtg ccgttaagggt cagtgaccat 2440
204 aaaaatgaca gtggttaacta taacattcac ctttattatc gccttgtaac tgggtgaatta 2500
206 aagggttggtg gaggaagac aacgacagta gaagccccta atagagtcaa tcttccagca 2560
208 caaggaactt atgttttcac taataaagtt gaggttaaaa atgaggccag aacatctagt 2620
210 ccaactcagt ttacctttaa taaaggagaa agtattttact atgacagtat cttgaatgct 2680
212 gatggacatc aatggattag ctatcggtcc tacagtggta ttcgtcggtta tattatcatt 2740
214 gggtgaagta aaaaagggtta ggatgacaaa atcctgactt ttttgtggtt tagaattaat 2800

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216 gttggataaa gtgtggagtt tgtgctcgaa aaatagcagc gattgaatgt gtttataatt 2860
218 tgattcagac attagttttt atttcaagca aaaaatttga caaatcaaat caattatatt 2920
220 acaatttttt aacgtatatt acaaaaatat atttggaaga tttattcaga tttggaggat 2980
222 ttatg 2985
225 <210> SEQ ID NO: 6
226 <211> LENGTH: 335
227 <212> TYPE: PRT
228 <213> ORGANISM: Streptococcus mutans
230 <400> SEQUENCE: 6
231 Met Asn Gln Lys Ile Val Val Ile Ser Ser Phe Tyr Met Leu Gly Ala
232 1 5 10 15
234 His Ser Phe Ser Lys Ala Val Tyr His Asn Asp Arg Ser Val Lys Leu
235 20 25 30
237 Met Lys Arg Ile Asp Ile Asn His Gln Ala Gln Arg Phe Ser Ile Arg
238 35 40 45
240 Lys Tyr Ala Phe Gly Ala Ala Ser Val Leu Ile Gly Cys Val Phe Phe
241 50 55 60
243 Leu Gly Thr Gln Asn Val Ser Ala Gln Glu Gln Gly Thr Gln Leu Pro
244 65 70 75 80
246 Ala Ser Glu Asn Ala Val Val Asn Val Ala Glu Asn Ser Val Ala Ile
247 85 90 95
249 Ser Gln Ala Val Ala Asp Lys Ala Ala Thr Gln Thr Thr Leu Thr Glu
250 100 105 110
252 Thr Pro Gln Val Glu Val Glu Glu Lys Glu Ser Lys Val Asn Ala Pro
253 115 120 125
255 Ala Leu Asn Val Asp Asp Lys Gly Ala Lys Ser Lys Glu Asp Val Asn
256 130 135 140
258 Pro Thr Ile Ser Lys Thr Ala Ser Glu Val Glu Ala Ser Ala Val Thr
259 145 150 155 160
261 Ala Thr Asp Thr Lys Asn Ser Asn Pro Gln Val Asn Val Glu Thr Asp
262 165 170 175
264 Ser Ser Glu Lys Asp Glu Asn Lys Met Val Thr Ser Ala Pro Ala Lys
265 180 185 190
267 Glu Thr Glu Ala Glu Gln Asn Glu Lys Ala Val Arg Glu Asn Leu Met
268 195 200 205
270 Gln Arg Gln Ala Lys Ala Val Ser Ile Pro Ser Gln Gly Asn Tyr Val
271 210 215 220
273 Phe Gln Glu Thr Thr Pro Val Lys Asn Ala Ala Ser Met Ser Ser Pro
274 225 230 235 240
276 Thr Gln Phe Asn Phe Asp Lys Gly Asp Lys Val Phe Tyr Asp Asn Val
277 245 250 255
279 Leu Glu Ala Asp Gly His Gln Trp Ile Ser Tyr Val Ser Tyr Ser Gly
280 260 265 270
282 Ile Arg Arg Tyr Ala Pro Ile Ala Val Thr Ile Glu Glu Leu Lys Gln
283 275 280 285
285 Lys Glu Ile Val Gln Gln Asn Leu Pro Ala Gln Gly Thr Tyr His Phe
286 290 295 300
288 Thr Lys Gln Gln Ser Leu Lys Met Lys Leu Asn Cys Leu Val Arg Pro
289 305 310 315 320

```

## RAW SEQUENCE LISTING

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Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\11052004\J009004B.raw

291	Asn	Ser	Arg	Phe	Thr	Thr	Glu	Ile	Thr	Phe	Phe	Met	Ile	Arg	Phe
292					325					330					335

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/009,004B

DATE: 11/05/2004  
TIME: 13:48:12

Input Set : A:\PTO.YF.txt  
Output Set: N:\CRF4\11052004\J009004B.raw

*error explanation*  
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 8

VERIFICATION SUMMARY

DATE: 11/05/2004

PATENT APPLICATION: US/10/009,004B

TIME: 13:48:12

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\11052004\J009004B.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date